

What is claimed is:

1. A medical valve having an open mode to permit fluid flow and a closed mode to prevent fluid flow, the medical valve comprising:
 - 5 a body forming an interior, a proximal port, and a distal port; and
 - a valving element within the interior of the body, the valving element controlling fluid flow between the proximal and distal ports,
 - the valving element including a resilient member and a plug, the resilient member forming a fluid chamber within the interior of the body,
 - 10 the plug cooperating with the resilient member to provide an internal seal within the interior of the body, the internal seal being spaced from the proximal port,
 - the plug being capable of radially expanding the resilient member when the valve transitions from the closed mode to the open mode, the fluid chamber
 - 15 having a larger volume when in the open mode than when in the closed mode.
2. The medical valve as defined by claim 1 wherein the resilient member forms a proximal seal at the proximal port.
- 20 3. The medical valve as defined by claim 1 wherein the plug includes a plurality of legs that bow outwardly upon application of a distally directed force.
4. The medical valve as defined by claim 1 wherein the plug includes a plurality of legs that normally bow outwardly.
- 25 5. The medical valve as defined by claim 1 wherein the plug includes a plurality of legs and a leg separator to prevent contact of the legs.

6. The medical valve as defined by claim 1 wherein the interior includes a stop, the plug being capable of longitudinally moving distally within the interior to contact the stop, the plug being capable of radially expanding the resilient member after the plug contacts the stop.

5

7. The medical valve as defined by claim 1 wherein the plug includes a distal end, the resilient member having an open distal end, the plug distal end cooperating with the resilient member open distal end to form the internal seal.

10 8. The medical valve as defined by claim 7 wherein the internal seal is closed when the resilient member open distal end is occluded by the plug distal end.

9. The medical valve as defined by claim 1 wherein the valve element is swabbable.

15

10. A medical valve having an open mode to permit fluid flow and a closed mode to prevent fluid flow, the medical valve comprising:

a body forming an interior, a proximal port, and a distal port;

a valving element within the interior of the body, the valving element

20 controlling fluid flow between the proximal and distal ports; and

a variable volume fluid chamber within the interior of the body, the fluid chamber having a larger volume when in the open mode than when the valve is in the closed mode,

the valving element including an internal seal within the interior of the

25 body, the internal seal being spaced from the proximal port.

11. The medical valve as defined by claim 10 wherein the valving element includes a proximal seal that is spaced from the internal seal.

12. The medical valve as defined by claim 11 wherein the proximal seal is swabbable.

5 13. The medical valve as defined by claim 10 wherein the valving element includes a plug member at least in part within a resilient member.

14. The medical valve as defined by claim 13 wherein the resilient member is capable of radially stretching a wall of the resilient member as the valve
10 transitions toward the open mode.

15. The medical valve as defined by claim 10 wherein the valving element includes a split plug member forming at least two portions with separable opposing faces, the opposing faces being substantially flush against each other
15 when in the closed mode.

16. A medical valve having an open mode to permit fluid flow and a closed mode to prevent fluid flow, the medical valve comprising:
a body forming an interior, a proximal port, and a distal port;
20 valving means for controlling fluid flow between the proximal and distal ports; and
a variable volume fluid chamber within the interior of the body, the fluid chamber having a larger volume when in the open mode than when the valve is in the closed mode,
25 the valving means including internal seal means for sealing the valve within the interior of the body, the internal seal means being spaced from the proximal port.

17. The medical valve as defined by claim 16 wherein the valving means includes a swabbable seal means.

18. The medical valve as defined by claim 16 wherein the valving means
5 includes a plug within an resilient member.

19. The medical valve as defined by claim 18 wherein the plug includes means for radially expanding the resilient member when the valve transitions to the open mode.

10

20. The medical valve as defined by claim 18 wherein the plug has a plurality of legs that bow outwardly upon application of a distally directed force.

15